

FORM D

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895380

UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

OMB APPROVAL	
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04033099

FORM D

NOTICE OF SALE OF SECURITIES
PURSUANT TO REGULATION D,
SECTION 4(6), AND/OR
UNIFORM LIMITED OFFERING EXEMPTION

SEC USE ONLY	
Prefix	Serial
DATE RECEIVED	

Name of Offering check if this is an amendment and name has changed, and indicate change.)
Series G Convertible Preferred Stock and Warrants to Purchase Common Stock; Common Stock issuable upon exercise of Warrants

Filing Under (Check box(es) that apply): Rule 504 Rule 505 Rule 506 Section 4(6) ULOE
Type of Filing: New Filing Amendment

A. BASIC IDENTIFICATION DATA

1. Enter the information requested about the issuer

Name of Issuer check if this is an amendment and name has changed, and indicate change.)

Diametrics Medical, Inc.

Address of Executive Offices (Number and Street, City, State, Zip Code)
3050 Centre Pointe Drive, Suite 150, Roseville, MN 55113

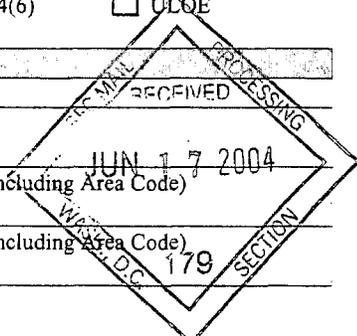
Telephone Number (Including Area Code)
651-639-8035

Address of Principal Business Operations (Number and Street, City, State, Zip Code)
(If different from Executive Offices)

Telephone Number (Including Area Code)

Brief Description of Business

The Company develops, manufactures and commercializes blood and tissue analysis systems that provide continuous diagnostic results at the point-of-patient care.



Type of Business Organization

corporation limited partnership, already formed other (please specify):
 business trust limited partnership, to be formed

PROCESSED

JUN 18 2004

Actual or Estimated Date of Incorporation or Organization: Month Year Actual Estimated
0 1 9 0

Jurisdiction of Incorporation or Organization: (Enter two-letter U.S. Postal Service abbreviation for State: M N)
CN for Canada; FN for other foreign jurisdiction)

THOMSON FINANCIAL

GENERAL INSTRUCTIONS

Federal:

Who Must File: All issuers making an offering of securities in reliance on an exemption under Regulation D or Section 4(6), 17 CFR 230.501 et seq. or 15 U.S.C. 77d(6).

When to File: A notice must be filed no later than 15 days after the first sale of securities in the offering. A notice is deemed filed with the U.S. Securities and Exchange Commission (SEC) on the earlier of the date it is received by the SEC at the address given below or, if received at that address after the date on which it is due, on the date it was mailed by United States registered or certified mail to that address.

Where to File: U.S. Securities and Exchange Commission, 450 Fifth Street, N.W., Washington, D.C. 20549.

Copies Required: Five (5) copies of this notice must be filed with the SEC, one of which must be manually signed. Any copies not manually signed must be photocopies of the manually signed copy or bear typed or printed signatures.

Information Required: A new filing must contain all information requested. Amendments need only report the name of the issuer and offering, any changes thereto, the information requested in Part C, and any material changes from the information previously supplied in Parts A and B. Part E and the Appendix need not be filed with the SEC.

Filing Fee: There is no federal filing fee.

State:

This notice shall be used to indicate reliance on the Uniform Limited Offering Exemption (ULOE) for sales of securities in those states that have adopted ULOE and that have adopted this form. Issuers relying on ULOE must file a separate notice with the Securities Administrator in each state where sales are to be, or have been made. If a state requires the payment of a fee as a precondition to the claim for the exemption, a fee in the proper amount shall accompany this form. This notice shall be filed in the appropriate states in accordance with state law. The Appendix to the notice constitutes a part of this notice and must be completed.

ATTENTION

Failure to file notice in the appropriate states will not result in a loss of the federal exemption. Conversely, failure to file the appropriate federal notice will not result in a loss of an available state exemption unless such exemption is predicated on the filing of a federal notice.

Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB control number.

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A. BASIC IDENTIFICATION DATA

2. Enter the information requested for the following:

- Each promoter of the issuer, if the issuer has been organized within the past five years;
- Each beneficial owner having the power to vote or dispose, or direct the vote or disposition of, 10% or more of a class of equity securities of the issuer;
- Each executive officer and director of corporate issuers and of corporate general and managing partners of partnership issuers; and
- Each general and managing partner of partnership issuers.

Check Box(es) that Apply: Promoter Beneficial Owner Executive Officer Director General and/or Managing Partner

Full Name (Last name first, if individual)

Cohn, Gerald L.

Business or Residence Address (Number and Street, City, State, Zip Code)

3050 Centre Pointe Drive, Suite 150, Roseville, MN 55113

Check Box(es) that Apply: Promoter Beneficial Owner Executive Officer Director General and/or Managing Partner

Full Name (Last name first, if individual)

Kaysen, David B.

Business or Residence Address (Number and Street, City, State, Zip Code)

3050 Centre Pointe Drive, Suite 150, Roseville, MN 55113

Check Box(es) that Apply: Promoter Beneficial Owner Executive Officer Director General and/or Managing Partner

Full Name (Last name first, if individual)

Knudson, Mark B.

Business or Residence Address (Number and Street, City, State, Zip Code)

3050 Centre Pointe Drive, Suite 150, Roseville, MN 55113

Check Box(es) that Apply: Promoter Beneficial Owner Executive Officer Director General and/or Managing Partner

Full Name (Last name first, if individual)

Goldfischer, Carl S.

Business or Residence Address (Number and Street, City, State, Zip Code)

3050 Centre Pointe Drive, Suite 150, Roseville, MN 55113

Check Box(es) that Apply: Promoter Beneficial Owner Executive Officer Director General and/or Managing Partner

Full Name (Last name first, if individual)

W. Glen Winchell

Business or Residence Address (Number and Street, City, State, Zip Code)

3050 Centre Pointe Drive, Suite 150, Roseville, MN 55113

Check Box(es) that Apply: Promoter Beneficial Owner Executive Officer Director General and/or Managing Partner

Full Name (Last name first, if individual)

Emery, Steven B.

Business or Residence Address (Number and Street, City, State, Zip Code)

3050 Centre Pointe Drive, Suite 150, Roseville, MN 55113

Check Box(es) that Apply: Promoter Beneficial Owner Executive Officer Director General and/or Managing Partner

Full Name (Last name first, if individual)

Business or Residence Address (Number and Street, City, State, Zip Code)

A. BASIC IDENTIFICATION DATA

2. Enter the information requested for the following:

- Each promoter of the issuer, if the issuer has been organized within the past five years;
- Each beneficial owner having the power to vote or dispose, or direct the vote or disposition of, 10% or more of a class of equity securities of the issuer;
- Each executive officer and director of corporate issuers and of corporate general and managing partners of partnership issuers; and
- Each general and managing partner of partnership issuers.

Check Box(es) that Apply: Promoter Beneficial Owner Executive Officer Director General and/or Managing Partner

Full Name (Last name first, if individual)
Mercator Momentum Fund III, LP

Business or Residence Address (Number and Street, City, State, Zip Code)
555 South Flower Street, Suite 4500, Los Angeles, California 90071

Check Box(es) that Apply: Promoter Beneficial Owner Executive Officer Director General and/or Managing Partner

Full Name (Last name first, if individual)
BCC Acquisition II LLC

Business or Residence Address (Number and Street, City, State, Zip Code)
c/o Bay City Capital, 750 Battery Street, Suite 600, San Francisco, CA 90071

Check Box(es) that Apply: Promoter Beneficial Owner Executive Officer Director General and/or Managing Partner

Full Name (Last name first, if individual)
Mercator Focus Fund, LP

Business or Residence Address (Number and Street, City, State, Zip Code)
555 South Flower Street, Suite 4500, Los Angeles, California 90071

Check Box(es) that Apply: Promoter Beneficial Owner Executive Officer Director General and/or Managing Partner

Full Name (Last name first, if individual)
Mercator Momentum Fund, LP

Business or Residence Address (Number and Street, City, State, Zip Code)
555 South Flower Street, Suite 4500, Los Angeles, California 90071

Check Box(es) that Apply: Promoter Beneficial Owner Executive Officer Director General and/or Managing Partner

Full Name (Last name first, if individual)
Monarch Pointe, Ltd.

Business or Residence Address (Number and Street, City, State, Zip Code)
555 South Flower Street, Suite 4500, Los Angeles, California 90071

Check Box(es) that Apply: Promoter Beneficial Owner Executive Officer Director General and/or Managing Partner

Full Name (Last name first, if individual)

Business or Residence Address (Number and Street, City, State, Zip Code)

Check Box(es) that Apply: Promoter Beneficial Owner Executive Officer Director General and/or Managing Partner

Full Name (Last name first, if individual)

Business or Residence Address (Number and Street, City, State, Zip Code)

B. INFORMATION ABOUT OFFERING

1. Has the issuer sold, or does the issuer intend to sell, to non-accredited investors in this offering? Yes No

Answer also in Appendix, Column 2, if filing under ULOE.

2. What is the minimum investment that will be accepted from any individual? \$ N/A

3. Does the offering permit joint ownership of a single unit? Yes No

4. Enter the information requested for each person who has been or will be paid or given, directly or indirectly, any commission or similar remuneration for solicitation of purchasers in connection with sales of securities in the offering. If a person to be listed is an associated person or agent of a broker or dealer registered with the SEC and/or with a state or states, list the name of the broker or dealer. If more than five (5) persons to be listed are associated persons of such a broker or dealer, you may set forth the information for that broker or dealer only.

No commissions will be paid.

Full Name (Last name first, if individual)

Business or Residence Address (Number and Street, City, State, Zip Code)

Name of Associated Broker or Dealer

States in Which Person Listed Has Solicited or Intends to Solicit Purchasers

(Check "All States" or check individual States) All States

<input type="checkbox"/> [AL]	<input type="checkbox"/> [AK]	<input type="checkbox"/> [AZ]	<input type="checkbox"/> [AR]	<input type="checkbox"/> [CA]	<input type="checkbox"/> [CO]	<input type="checkbox"/> [CT]	<input type="checkbox"/> [DE]	<input type="checkbox"/> [DC]	<input type="checkbox"/> [FL]	<input type="checkbox"/> [GA]	<input type="checkbox"/> [HI]	<input type="checkbox"/> [ID]
<input type="checkbox"/> [IL]	<input type="checkbox"/> [IN]	<input type="checkbox"/> [IA]	<input type="checkbox"/> [KS]	<input type="checkbox"/> [KY]	<input type="checkbox"/> [LA]	<input type="checkbox"/> [ME]	<input type="checkbox"/> [MD]	<input type="checkbox"/> [MA]	<input type="checkbox"/> [MI]	<input type="checkbox"/> [MN]	<input type="checkbox"/> [MS]	<input type="checkbox"/> [MO]
<input type="checkbox"/> [MT]	<input type="checkbox"/> [NE]	<input type="checkbox"/> [NV]	<input type="checkbox"/> [NH]	<input type="checkbox"/> [NJ]	<input type="checkbox"/> [NM]	<input type="checkbox"/> [NY]	<input type="checkbox"/> [NC]	<input type="checkbox"/> [ND]	<input type="checkbox"/> [OH]	<input type="checkbox"/> [OK]	<input type="checkbox"/> [OR]	<input type="checkbox"/> [PA]
<input type="checkbox"/> [RI]	<input type="checkbox"/> [SC]	<input type="checkbox"/> [SD]	<input type="checkbox"/> [TN]	<input type="checkbox"/> [TX]	<input type="checkbox"/> [UT]	<input type="checkbox"/> [VT]	<input type="checkbox"/> [VA]	<input type="checkbox"/> [WA]	<input type="checkbox"/> [WV]	<input type="checkbox"/> [WI]	<input type="checkbox"/> [WY]	<input type="checkbox"/> [PR]

Full Name (Last name first, if individual)

Business or Residence Address (Number and Street, City, State, Zip Code)

Name of Associated Broker or Dealer

States in Which Person Listed Has Solicited or Intends to Solicit Purchasers

(Check "All States" or check individual States) All States

<input type="checkbox"/> [AL]	<input type="checkbox"/> [AK]	<input type="checkbox"/> [AZ]	<input type="checkbox"/> [AR]	<input type="checkbox"/> [CA]	<input type="checkbox"/> [CO]	<input type="checkbox"/> [CT]	<input type="checkbox"/> [DE]	<input type="checkbox"/> [DC]	<input type="checkbox"/> [FL]	<input type="checkbox"/> [GA]	<input type="checkbox"/> [HI]	<input type="checkbox"/> [ID]
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<input type="checkbox"/> [MT]	<input type="checkbox"/> [NE]	<input type="checkbox"/> [NV]	<input type="checkbox"/> [NH]	<input type="checkbox"/> [NJ]	<input type="checkbox"/> [NM]	<input type="checkbox"/> [NY]	<input type="checkbox"/> [NC]	<input type="checkbox"/> [ND]	<input type="checkbox"/> [OH]	<input type="checkbox"/> [OK]	<input type="checkbox"/> [OR]	<input type="checkbox"/> [PA]
<input type="checkbox"/> [RI]	<input type="checkbox"/> [SC]	<input type="checkbox"/> [SD]	<input type="checkbox"/> [TN]	<input type="checkbox"/> [TX]	<input type="checkbox"/> [UT]	<input type="checkbox"/> [VT]	<input type="checkbox"/> [VA]	<input type="checkbox"/> [WA]	<input type="checkbox"/> [WV]	<input type="checkbox"/> [WI]	<input type="checkbox"/> [WY]	<input type="checkbox"/> [PR]

Full Name (Last name first, if individual)

Business or Residence Address (Number and Street, City, State, Zip Code)

Name of Associated Broker or Dealer

States in Which Person Listed Has Solicited or Intends to Solicit Purchasers

(Check "All States" or check individual States) All States

<input type="checkbox"/> [AL]	<input type="checkbox"/> [AK]	<input type="checkbox"/> [AZ]	<input type="checkbox"/> [AR]	<input type="checkbox"/> [CA]	<input type="checkbox"/> [CO]	<input type="checkbox"/> [CT]	<input type="checkbox"/> [DE]	<input type="checkbox"/> [DC]	<input type="checkbox"/> [FL]	<input type="checkbox"/> [GA]	<input type="checkbox"/> [HI]	<input type="checkbox"/> [ID]
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<input type="checkbox"/> [MT]	<input type="checkbox"/> [NE]	<input type="checkbox"/> [NV]	<input type="checkbox"/> [NH]	<input type="checkbox"/> [NJ]	<input type="checkbox"/> [NM]	<input type="checkbox"/> [NY]	<input type="checkbox"/> [NC]	<input type="checkbox"/> [ND]	<input type="checkbox"/> [OH]	<input type="checkbox"/> [OK]	<input type="checkbox"/> [OR]	<input type="checkbox"/> [PA]
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(Use blank sheet, or copy and use additional copies of this sheet, if necessary.)

C. OFFERING PRICE, NUMBER OF INVESTORS, EXPENSES AND USE OF PROCEEDS

1. Enter the aggregate offering price of securities included in this offering and the total amount already sold. Enter "0" if answer is "none" or "zero." If the transaction is an exchange offering, check this box and indicate in the columns below the amounts of the securities offered for exchange and already exchanged.

Type of Security	Aggregate Offering Price	Amount Already Sold
Debt	\$ _____	\$ _____
Equity <u>Common Stock issuable upon exercise of Warrants</u>	\$ <u>*</u> _____	\$ <u>0</u> _____
<input checked="" type="checkbox"/> Common <input type="checkbox"/> Preferred		
Convertible Securities (including warrants) <u>Series G Convertible Preferred Stock and Warrants to purchase Common Stock</u>	\$ <u>1,500,000</u> _____	\$ <u>1,500,000</u> _____
Partnership Interests	\$ _____	\$ _____
Other (Specify _____)	\$ _____	\$ _____
Total	\$ <u>1,500,000</u> _____	\$ <u>1,500,000</u> _____

Answer also in Appendix, Column 4, if filing under ULOE.

2. Enter the number of accredited and non-accredited investors who have purchased securities in this offering and the aggregate dollar amounts of their purchases. For offerings under Rule 504, indicate the number of persons who have purchased securities and the aggregate dollar amount of their purchases on the total lines. Enter "0" if answer is "none" or "zero."

.....	Number Investors	Aggregate Dollar Amount of Purchases
Accredited Investors	<u>4</u> _____	\$ <u>1,500,000</u> _____
Non-accredited Investors	_____	\$ _____
Total (for filings under Rule 504 only)	_____	\$ _____

Answer also in Appendix, Column 4, if filing under ULOE.

3. If this filing is for an offering under Rule 504 or 505, enter the information requested for all securities sold by the issuer, to date, in offerings of the types indicated, in the twelve (12) months prior to the first sale of securities in this offering. Classify securities by type listed in Part C - Question 1.

Type of Offering	Type of Security	Dollar Amount Sold
Rule 505	_____	\$ _____
Regulation A	_____	\$ _____
Rule 504	_____	\$ _____
Total	_____	\$ _____

4. a. Furnish a statement of all expenses in connection with the issuance and distribution of the securities in this offering. Exclude amounts relating solely to organization expenses of the issuer. The information may be given as subject to future contingencies. If the amount of an expenditure is not known, furnish an estimate and check the box to the left of the estimate.

Transfer Agent's Fees	<input type="checkbox"/>	\$ _____
Printing and Engraving Costs	<input type="checkbox"/>	\$ _____
Legal Fees	<input checked="" type="checkbox"/>	\$ <u>40,000</u> _____
Accounting Fees	<input type="checkbox"/>	\$ _____
Engineering Fees	<input type="checkbox"/>	\$ _____
Sales Commissions (specify finders' fees separately)	<input type="checkbox"/>	\$ _____
Other Expenses (identify) <u>Due diligence fees of purchasers</u>	<input checked="" type="checkbox"/>	\$ <u>55,000</u> _____
Total	<input checked="" type="checkbox"/>	\$ <u>95,000</u> _____

*The purchase price for the exercise of the Warrants is based upon a calculation that will require current market information that is not available at this time.

C. OFFERING PRICE, NUMBER OF INVESTORS, EXPENSES AND USE OF PROCEEDS

b. Enter the difference between the aggregate offering price given in response to Part C - Question 1 and total expenses furnished in response to Part C - Question 4.a. This difference is the "adjusted gross proceeds to the issuer."

\$ 1,405,000

5. Indicate below the amount of the adjusted gross proceeds to the issuer used or proposed to be used for each of the purposes shown. If the amount for any purpose is not known, furnish an estimate and check the box to the left of the estimate. The total of the payments listed must equal the adjusted gross proceeds to the issuer set forth in response to Part C - Question 4.b above.

	Payment to Officers, Directors, & Affiliates		Payments to Others
Salaries and fees	<input type="checkbox"/>	\$ _____	<input type="checkbox"/> \$ _____
Purchase of real estate	<input type="checkbox"/>	\$ _____	<input type="checkbox"/> \$ _____
Purchase, rental or leasing and installation of machinery and equipment	<input type="checkbox"/>	\$ _____	<input type="checkbox"/> \$ _____
Construction or leasing of plant buildings and facilities	<input type="checkbox"/>	\$ _____	<input type="checkbox"/> \$ _____
Acquisition of other businesses (including the value of securities involved in this offering that may be used in exchange for the assets or securities of another issuer pursuant to a merger)	<input type="checkbox"/>	\$ _____	<input type="checkbox"/> \$ _____
Repayment of indebtedness	<input type="checkbox"/>	\$ _____	<input type="checkbox"/> \$ _____
Working capital	<input type="checkbox"/>	\$ _____	<input type="checkbox"/> \$ _____
Other (specify): _____	<input type="checkbox"/>	\$ _____	<input checked="" type="checkbox"/> \$ <u>1,405,000</u>
_____	<input type="checkbox"/>	\$ _____	<input type="checkbox"/> \$ _____
Column Totals	<input type="checkbox"/>	\$ _____	<input checked="" type="checkbox"/> \$ <u>1,405,000</u>
Total Payments Listed (column totals added)	<input checked="" type="checkbox"/>	\$ <u>1,405,000</u>	

D. FEDERAL SIGNATURE

The issuer has duly caused this notice to be signed by the undersigned duly authorized person. If this notice is filed under Rule 505, the following signature constitutes an undertaking by the issuer to furnish to the U.S. Securities and Exchange Commission, upon written request of its staff, the information furnished by the issuer to any non-accredited investor pursuant to paragraph (b)(2) of Rule 502.

Issuer (Print or Type) Diametrics Medical, Inc.	Signature <i>W. Glen Winchell</i>	Date 6/11/04
Name of Signer (Print or Type) W. Glen Winchell	Title of Signer (Print or Type) Senior Vice President and Chief Financial Officer	

ATTENTION

Intentional misstatements or omissions of fact constitute federal criminal violations. (See 18 U.S.C. 1001.)